

# STIC Search Report Biotech-Chem Library

## STIC Database Tracking Number: 93716

TO: Robert (Rei-Tsang Shiao

Location: 3d08 / 3d19 Tuesday, May 27, 2003

Au: 1626

**Serial Number: 10 / 035783** 

From: Jan Delaval

**Location: Biotech-Chem Library** 

CM1-1E07

Phone: 308-4498

jan.delaval@uspto.gov

#### Search Notes

Jan Delaval Reference Librarian Biotechnology & Chemical Library CM1 1E07 - 703-308-4498 jan.delaval@uspto.gov





# STIC SEARCH RESULTS

## Biotech-Chem Library

Questions about the scope or the results of the search? Contact the searcher or contact:

Mary Hale, Information Branch Supervisor 308-4258, CM1-1E01

<b>/</b> 0	luntary Results Feedback Form
>	I am an examiner in Workgroup: Example: 1610
	Relevant prior art found, search results used as follows:
	☐ 102 rejection
	103 rejection
	☐ Cited as being of interest.
	Helped examiner better understand the invention.
	Helped examiner better understand the state of the art in their technology.
	Types of relevant prior art found:
	☐ Foreign Patent(s)
	Non-Patent Literature (journal articles, conference proceedings, new product announcements etc.)
	Relevant prior art not found:
	Results verified the lack of relevant prior art (helped determine patentability).
	☐ Results were not useful in determining patentability or understanding the invention.
Co	mments:

Drop off or send completed forms to STIC/Biotech-Chem Library CM1 - Circ. Desk



Jan Delavati

# SEARCH REQUEST FORM

Access DB# <u>937/7</u>

#### Scientific and Technical Information Center

	cientific and Techn		
Requester's Full Name: Art Unit: Phone	Number 30	Examiner # :	Date: r:
Mail Box and Bldg/Room Locatio		esults Format Preferre	d (circle): PAPER DISK E-MA
If more than one search is subn	nitted, please prior	itize searches in ord	er of need. **********************
Please provide a detailed statement of the Include the elected species or structures, utility of the invention. Define any terms known. Please attach a copy of the cover	e search topic, and descri keywords, synonyms, ac s that may have a special	be as specifically as possib ronyms, and registry numb meaning. Give examples	le the subject matter to be searched. ers, and combine with the concept or
Title of Invention:			
Inventors (please provide full names):			
Earliest Priority Filing Date:			
*For Sequence Searches Only* Please inclu	ide all pertinent informatic	on (parent, child, divisional, a	r issued patent numbers) alono with the
IL search of X? cft.  The Method for	CH+X7 H Jy Ri	POPE Z	R <sup>6</sup> R <sub>1</sub> , R <sub>2</sub> , R ×1 sie sub
I spach  Cld I	FTOS		Jan Delaval Reference Librarian Biotechnology & Chemical Library CM1 1E07 – 703-308-4498 jan.delaval@uspto.gov
earcher Phone #: 4498	Type of Search  NA Sequence (#)  AA Sequence (#)	STN	cost where applicable
earcher Location:	Structure (#)	Questel/Orbit	1
hate Searcher Picked Up: 5 12 1 (3	Bibliographic	Dr.Link	
rate Completed: 5 77 [13	Litigation	Lexis/Nexis	
earcher Prep & Review Time:	Fulltext	_ Sequence Systems	· .
lerical Prep Time:	Patent Family	WWW/Internet	
mline Time: + 30	Other	Other (specify)	

SEARCH REQUEST FORM
SEARCH REQUEST FORM  Scientific and Technical Information Center
Requester's Full Name: Robot (Reiby) Shin Examiner #: 7952 Date: 5963 Art Unit: 1026 Phone Number 30 8 - 4002 Serial Number: 10035783 Mail Box and Bldg/Room Location: 3008 Results Format Preferred (circle): PAPER DISK E-MAIL
If more than one search is submitted, please prioritize searches in order of need.
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.
Title of Invention: Novel composed and wipside and
Inventors (please provide full names):
<u>Graupe et al</u>
Earliest Priority Filing Date:
*For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the Jan Delaval Reference Librarian Biotechnology & Chemical Library CM1 1E07 - 703-308-4498 jan.delaval@uspto.gov
CH2X? H II RS RI, RS, RS, ES BIEDSULD, RT
I search for Epa II  CH2×1 H O R6  X CH2 T N SOLR RIE Sub.  RIR2
III search for apolitic of $R_1, R_2, R_3$ and $R_4, R_5$ are sub.
STAFF USE ONLY Type of Search Vendors and cost where applicable
Searcher: NA Sequence (#) STN
Searcher Phone #:
Searcher Location: Structure (#) Questel/Orbit
Date Searcher Picked Up: 5 27 13 Bibliographic Dr.Link  Date Completed: 5 27 68 Litigation Lexis/Nexis
Date Completed: Fulltext Sequence Systems
Clerical Prep Time: Patent Family WWW/Internet
Online Time: Other Other (specify)

=> fil reg FILE 'REGISTRY' ENTERED AT 15:41:06 ON 27 MAY 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 26 MAY 2003 HIGHEST RN 520505-31-1 DICTIONARY FILE UPDATES: 26 MAY 2003 HIGHEST RN 520505-31-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> d ide can 17

L7 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 440127-27-5 REGISTRY

CN 4-Morpholinebutanamide, .alpha.-[[[[2-(difluoromethoxy)phenyl]methyl]sulfo nyl]methyl]-N-[1-[(5-ethyl-1,3,4-oxadiazol-2-yl)carbonyl]butyl]-.gamma.- oxo- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C26 H34 F2 N4 O8 S

SR CA

LC STN Files: CA, CAPLUS

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\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 137:78943

FILE 'HCAPLUS' ENTERED AT 15:41:17 ON 27 MAY 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 27 May 2003 VOL 138 ISS 22 FILE LAST UPDATED: 26 May 2003 (20030526/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s_1 17
L14
             1 L7
  d bib abs retable hitstr
L14
    ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS
AN
     2002:504904 HCAPLUS
DΝ
     137:78943
     Preparation of N-[1-(benzoxazolylcarbonyl)alkyl]- and N-[1-(benzoxazolylcarbonyl)alkyl]-
ΤI
     (oxadiazolylcarbonyl)alkyl]alkanamides and related compounds as selective
     cathepsin S inhibitors
     Halley, Frank; Graupe, Michael; Patterson, John; Pickett, Stephen D.;
     Link, John; Li, Jiayao; Aldous, David; Thurairatnam, Sukanthini; Timm,
     Andreas; Lai, Justine
PA
     Celera, An Applera Corporation Business, USA
     PCT Int. Appl., 724 pp.
SO
     CODEN: PIXXD2
DT
     Patent
LA
     English
FAN.CNT 1
                                            APPLICATION NO.
     PATENT NO.
                      KIND DATE
                                                             DATE
                                            _____
                            _____
     _____
                                         WO 2001-US50680 20011224
ΡI
     WO 2002051983
                      A2
                            20020704
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PATENT NO. KIND DATE APPLICATION NO. DATE

PI WO 2002051983 A2 20020704 WO 2001-US50680 20011224

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2000-257603P P 20001222

OS GI MARPAT 137:78943

Title compds. of the formula R3R4CHCONHX1 [I; wherein X1 = CR1R2X2 or X3; AB X2 = CN, CHO, or (un) substituted (cyclo) alkyl, (hetero) arylalkyl, carbamoylalkyl, aminoalkyl, alkoxyalkyl, sulfamoylalkyl, etc.; X3 = substituted (thi)oxopyrrolidinyl, (thi)oxopiperidinyl, (thi)oxotetrahydro(thio)pyranyl, (thi)oxotetrahydrofuranyl, (thi)oxotetrahydrothiophenyl, etc.; R1 and R2 are both F; or R1 = H or alkyl and R2 = H, alkyl, CN, or (un) substituted amino(alkyl), carbamoyl(alkyl), carboxyamino(alkyl), acyl(alkyl), carboxy(alkyl), sulfamoyl(alkyl), phosphono(alkyl), etc.; or CR1R2 = (un)substituted (hetero)cycloalkyl; R3 and R4 = independently CR16R17X7; R16 and R17 = independently H, alkyl, or F; or R16 = H and R17 = OH; X7 =(un) substituted amino(alkyl), carbamoyl(alkyl), carboxyamino(alkyl), acyl(alkyl), carboxy(alkyl), sulfamoyl(alkyl), etc.; and N-oxides, prodrugs, protected derivs., isomers, pharmaceutically acceptable salts, and solvates thereof] were prepd. for treatment of cathepsin S mediated diseases. For example, reaction of 3-benzylsulfanyl-2benzylsulfanylmethylpropionic acid (prepn. given) with 2(S)-amino-1-(benzoxazol-2-yl)-1-pentanol in the presence of HOBt.bul.H20 and EDC in CH2Cl2 afforded the amide. Oxidn. of the sulfide groups using Oxone (41%), followed by treatment with Dess-Martin periodinane (74%), gave the title (S)-N-[1-(benzoxazolylmethanoyl)butyl]propanamide (S)-II. I inhibited human cathepsin S protease activity ( $\dot{\text{Ki}} = 0.1$  .mu.M to 0.1 nM) at concns. that were at least 50-fold less than those required to produce an equiv. inhibition of human cathepsin K protease activity. Thus, I are useful for the treatment of diseases mediated by cathepsin S activity, such as autoimmune disorders, disorders involving excessive elastolysis, systemic amyloidosis (no data).

#### 440127-27-5P

ΙT

RN

CN

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cathepsin S inhibitor; prepn. of N-(benzoxazolylcarbonylalkyl)- and N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)

440127-27-5 HCAPLUS

4-Morpholinebutanamide, .alpha.-[[[[2-(difluoromethoxy)phenyl]methyl]sulfonyl]methyl]-N-[1-[(5-ethyl-1,3,4-oxadiazol-2-yl)carbonyl]butyl]-.gamma.-oxo-(9CI) (CA INDEX NAME)

Spelle

=> fil uspatall FILE 'USPATFULL' ENTERED AT 15:41:32 ON 27 MAY 2003 CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPAT2' ENTERED AT 15:41:32 ON 27 MAY 2003 CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

=> s 17 L15 0 L7

=> fil reg FILE 'REGISTRY' ENTERED AT 15:47:40 ON 27 MAY 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 26 MAY 2003 HIGHEST RN 520505-31-1 DICTIONARY FILE UPDATES: 26 MAY 2003 HIGHEST RN 520505-31-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> d sta que 118 L16 STR

NODE ATTRIBUTES:

NSPEC IS RC AT 8
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 27

STEREO ATTRIBUTES: NONE L18 24 SEA FILE=REGISTRY SSS FUL L16

100.0% PROCESSED 51 ITERATIONS SEARCH TIME: 00.00.01

24 ANSWERS

=> d his

(FILE 'HOME' ENTERED AT 15:25:16 ON 27 MAY 2003) SET COST OFF

FILE 'REGISTRY' ENTERED AT 15:26:58 ON 27 MAY 2003 L4330 S E1-E330 12 S L4 AND NC2OC2/ES AND N2COC/ES AND 46.150.18/RID  $L_5$ 4 S L5 AND 3/NR L6 1 S L5 AND C26H34F2N4O8S L7 SEL RN Г8 0 S E331/CRN STR Ь9 2 S L9 L10 STR L9 L11

L12 1 S L11 L13 105 S L4 AND NC2OC2/ES

FILE 'REGISTRY' ENTERED AT 15:41:06 ON 27 MAY 2003

FILE 'HCAPLUS' ENTERED AT 15:41:17 ON 27 MAY 2003

L14 1 S L7

FILE 'USPATFULL, USPAT2' ENTERED AT 15:41:32 ON 27 MAY 2003 L15 0 S L7

FILE 'REGISTRY' ENTERED AT 15:42:15 ON 27 MAY 2003

FILE 'REGISTRY' ENTERED AT 15:45:58 ON 27 MAY 2003

L16 STR L11

L17 1 S L16

L18 24 S L16 FUL

SAV L18 TEMP SHIA0035/A

L19 23 S L18 NOT L7

FILE 'HCAOLD' ENTERED AT 15:47:17 ON 27 MAY 2003 L20 0 S L19

FILE 'HCAPLUS' ENTERED AT 15:47:19 ON 27 MAY 2003 L21 1 S L19

FILE 'USPATFULL, USPAT2' ENTERED AT 15:47:25 ON 27 MAY 2003 L22 0 S L19

FILE 'REGISTRY' ENTERED AT 15:47:40 ON 27 MAY 2003

=> fil hcaplus FILE 'HCAPLUS' ENTERED AT 15:47:48 ON 27 MAY 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

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FILE COVERS 1907 - 27 May 2003 VOL 138 ISS 22 FILE LAST UPDATED: 26 May 2003 (20030526/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d 121 all hitstr

L21 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2003 ACS

AN 2002:504904 HCAPLUS

DN 137:78943

TI Preparation of N-[1-(benzoxazolylcarbonyl)alkyl]- and N-[1-(oxadiazolylcarbonyl)alkyl]alkanamides and related compounds as selective cathepsin S inhibitors

```
IN Halley, Frank; Graupe, Michael; Patterson, John; Pickett, Stephen D.;
Link, John; Li, Jiayao; Aldous, David; Thurairatnam, Sukanthini; Timm,
Andreas; Lai, Justine
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PA Celera, An Applera Corporation Business, USA

SO PCT Int. Appl., 724 pp. CODEN: PIXXD2

DT Patent

LA English

IC ICM C12N

FAN.CNT 1

fAN.CNI I																		
PATENT NO.			KIND DATE			APPLICATION NO.					DATE							
			<b>-</b>															
PΙ	WO 2002	20519	83	A2 20020704			WO 2001-US50680					20011224						
	W:	ΑE,	AG,	AL,	AM,	AT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BY,	ΒZ,	CA,	CH,	CN,	
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	ΚP,	KR,	ΚZ,	LC,	LK,	LR,	
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	ΝZ,	PH,	PL,	
		PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	UG,	
		US,	UZ,	VN,	YU,	ZA,	ZW,	ΑM,	ΑZ,	BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM		
	RW:	GH,	GM,	KE,	LS,	MW,	ΜZ,	SD,	SL,	SZ,	ΤZ,	UG,	ZM,	ZW,	ΑT,	BE,	CH,	
		CY,	DE,	DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	ΝL,	PT,	SE,	TR,	
		BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	ΤG	
PRAI	US 2000	-257	60 <del>3P</del>	- P		2000	1222											
OS	MARPAT 137:78943																	
GI																		

51.18

AΒ Title compds. of the formula R3R4CHCONHX1 [I; wherein X1 = CR1R2X2 or X3; X2 = CN, CHO, or (un) substituted (cyclo) alkyl, (hetero) arylalkyl, carbamoylalkyl, aminoalkyl, alkoxyalkyl, sulfamoylalkyl, etc.; X3 = substituted (thi)oxopyrrolidinyl, (thi)oxopiperidinyl, (thi) oxotetrahydro (thio) pyranyl, (thi) oxotetrahydrofuranyl, (thi)oxotetrahydrothiophenyl, etc.; R1 and R2 are both F; or R1 = H or alkyl and R2 = H, alkyl, CN, or (un)substituted amino(alkyl), carbamoyl(alkyl), carboxyamino(alkyl), acyl(alkyl), carboxy(alkyl), sulfamoyl(alkyl), phosphono(alkyl), etc.; or CR1R2 = (un)substituted(hetero)cycloalkyl; R3 and R4 = independently CR16R17X7; R16 and R17 = independently H, alkyl, or F; or R16 = H and R17 = OH; X7 = (un) substituted amino(alkyl), carbamoyl(alkyl), carboxyamino(alkyl), acyl(alkyl), carboxy(alkyl), sulfamoyl(alkyl), etc.; and N-oxides, prodrugs, protected derivs., isomers, pharmaceutically acceptable salts, and solvates thereof] were prepd. for treatment of cathepsin S mediated diseases. For example, reaction of 3-benzylsulfanyl-2benzylsulfanylmethylpropionic acid (prepn. given) with 2(S)-amino-1-(benzoxazol-2-y1)-1-pentanol in the presence of HOBt.bul.H2O ST

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440127-61-7P

440127-62-8P

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and EDC in CH2Cl2 afforded the amide. Oxidn. of the sulfide groups using
Oxone (41%), followed by treatment with Dess-Martin periodinane (74%),
gave the title (S)-N-[1-(benzoxazolylmethanoyl)butyl]propanamide (S)-II.
I inhibited human cathepsin S protease activity (Ki = 0.1 .mu.M to 0.1 nM)
at concns. that were at least 50-fold less than those required to produce
an equiv. inhibition of human cathepsin K protease activity. Thus, I are
useful for the treatment of diseases mediated by cathepsin S activity,
such as autoimmune disorders, disorders involving excessive elastolysis,
systemic amyloidosis (no data).
benzoxazolyl oxadiazolyl alkanamide prepn selective cathepsin S inhibitor
Organelle
   (elastic fiber, excessive elastolysis, treatment; prepn. of
   N-(benzoxazolylcarbonylalkyl)- and N-(oxadiazolylcarbonylalkyl)alkanami
   des and related compds. as selective cathepsin S inhibitors)
Autoimmune disease
Drugs
Human
Immunomodulators
   (prepn. of N-(benzoxazolylcarbonylalkyl) - and N-
   (oxadiazolylcarbonylalkyl) alkanamides and related compds. as selective
   cathepsin S inhibitors)
Drug delivery systems
   (prodrugs; prepn. of N-(benzoxazolylcarbonylalkyl) - and
   N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as
   selective cathepsin S inhibitors)
Amyloidosis
   (treatment; prepn. of N-(benzoxazolylcarbonylalkyl) - and
   N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as
   selective cathepsin S inhibitors)
440126-41-0P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic
preparation); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); RACT (Reactant or reagent); USES (Uses)
   (cathepsin S inhibitor; prepn. of N-(benzoxazolylcarbonylalkyl) - and
   N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as
   selective cathepsin S inhibitors)
                              440126-13-6P
                                              440126-14-7P
440126-09-0P
               440126-12-5P
                                                             440126-15-8P
440126-16-9P
               440126-17-0P
                              440126-18-1P
                                              440126-19-2P
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                              440126-22-7P
                                              440126-23-8P
440126-20-5P
440126-24-9P 440126-26-1P 440126-27-2P
440126-28-3P
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440126-42-1P
2-(2-phenylsulfanylethyl)butyramide
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440127-56-0P
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                                              440127-59-3P
                                                             440127-60-6P
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440127-64-0P

440127-65-1P

440127-76-4P

440127-69-5P

440127-67-3P

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440127-66-2P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
        (cathepsin S inhibitor; prepn. of N-(benzoxazolylcarbonylalkyl)- and
        N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as
        selective cathepsin S inhibitors)
     81079-76-7P, 3-Benzylsulfanyl-2-benzylsulfanylmethylpropionic acid ethyl
IT
            81079-79-0P
                          91142-71-1P 153371-25-6P 440125-03-1P,
     2,2-Bis(methylsulfonyloxymethyl)malonic acid diethyl ester
                                                                  440125-04-2P
     440125-06-4P, 2-Benzylsulfanylmethyl-3-cyclohexylpropionic acid
                  440125-08-6P
     440125-07-5P
                                  440125-09-7P
                                                 440125-10-0P,
     2,2-Bis(2-phenylsulfanylethyl)malonic acid diethyl ester
                                                               440125-11-1P,
     2,2-Bis(2-phenylsulfanylethyl)malonic acid 440125-12-2P,
     4-Phenylsulfanyl-2-(2-phenylsulfanylethyl)butyric acid
                                                            440125-13-3P
     440125-14-4P, (S)-4-Amino-2,2-difluoro-3-hydroxyhexanoic acid
    dimethylamide
                   440125-15-5P
                                   440125-17-7P
                                                   440125-18-8P
                                                                440125-19-9P
                   440127-75-3P
     440125-20-2P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (intermediate; prepn. of (benzoxazolylcarbonylalkyl) - and
        (oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective
        cathepsin S inhibitors)
    273-97-2\bar{P}, Oxazolo[4,5-b]pyridine
                                       825-56-9P, 2-Phenyl-1,3,4-oxadiazole
IT
                 64001-70-3P, 2-(Pyridin-4-yl)-1,3,4-oxadiazole 87974-75-2P
    3275-37-4P
     109608-77-7P
                   121533-11-7P
                                 150736-72-4P, (S)-2-Bocamino-1-butanol
     150989-62-1P, 2,3,4,7-Tetrahydroazepine-1-carboxylic acid benzyl ester
     160801-72-9P
                   190141-99-2P, 3-Amino-4-hydroxypyrrolidine-1-carboxylic
    acid tert-butyl ester 281219-32-7P, Allylpent-4-enylcarbamic acid benzyl
             281219-33-8P, 4-Azido-3-hydroxyazepane-1-carboxylic acid benzyl
    ester
    ester
             346690-97-9P, (1-Formylpropyl)carbamic acid tert-butyl ester
                   440125-21-3P
                                  440125-22-4P
                                                 440125-23-5P,
    349671-19-8P
     (S)-2-Amino-1-(3-phenyl[1,2,4]) oxadiazol-5-yl) butan-1-one
                                                               440125-25-7P
     440125-26-8P, 2-Amino-1-(2-phenyl[1,3]dithian-2-yl)hexan-1-ol
    hydrochloride
                   440125-27-9P, 2-Bocamino-2-methyl-1-(oxazolo[4,5-b]pyridin-
                       440125-29-1P 440125-30-4P, 2-
     2-yl)-1-propanol
    Methoxymethyl[1,3,4]oxadiazole
                                     440125-31-5P
                                                    440125-33-7P
     440125-34-8P, 2-(2-Bocamino-1-hydroxybutyl)-5-phenyl-1,3,4-oxadiazole
                   440125-37-1P, 2-Bocamino-1-(oxazolo[4,5-b]pyridin-2-yl)-1-
     440125-36-0P
    butanol 440125-39-3P 440125-40-6P 440125-42-8P 440125-43-9P
                   440125-47-3P 440125-48-4P, [1-(Benzoxazol-2-
     440125-45-1P
    ylhydroxymethyl)propyl]carbamic acid tert-butyl ester
                                                            440125-50-8P
    440125-51-9P, 4-Benzyl-3-(4-cyclohexylbutyryl)oxazolidin-2-one
    440125-52-0P, 1-(4-Benzyl-2-oxooxazolidin-3-yl)-2-(2-cyclohexylethyl)-4-
                                     440125-53-1P, (2R)-1-((4S)-4-Benzyl-2-
    morpholin-4-ylbutane-1,4-dione
    oxooxazolidin-3-yl)-2-cyclohexylmethyl-4-morpholin-4-ylbutane-1,4-dione
                   440125~55-3P
     440125-54-2P
                                  440125-56-4P
                                                 440125-57-5P
                                                                440125-58-6P
                                   440125-61-1P
    440125-59-7P
                   440125-60-0P
                                                 440125-62-2P,
    2-Amino-1-(5-phenyl[1,2,4]oxadiazol-3-yl)butan-1-ol
                                                          440125-63-3P
     440125-64-4P
                   440125-65-5P
                                  440125-66-6P
                                                 440125-67-7P
                                                                440125-68-8P
     440125-69-9P, 3-Ethylsulfanyl-2-(tetrahydropyran-4-yloxymethyl)propionic
    acid ethyl ester
                        440125-70-2P
                                      440125-71-3P
                                                     440125-72-4P
    440125-73-5P
                   440125-74-6P
                                  440125-75-7P
                                                 440125-76-8P
                                                                440125-77-9P
     440125-78-0P
                   440125-79-1P
                                   440125-80-4P
                                                 440125-81-5P
                                                                440125-82-6P
     440125-83-7P
                                  440125-85-9P
                   440125-84-8P
                                                 440125-86-0P
                                                                440125-88-2P,
     [1-(Benzoxazole-2-carbonyl)propyl]carbamic acid tert-butyl ester
     440125-89-3P, 2-Amino-1-benzoxazol-2-ylbutan-1-one hydrochloride
     440125-90-6P
                   440125-91-7P
                                  440125-92-8P
                                                 440125-93-9P
                                                                440125-94-0P,
     (S)-2-Amino-2-methylpentan-1-ol
                                      440125-95-1P
                                                     440125-96-2P
                   440125-98-4P
                                 440125-99-5P, (S)-2-Amino-2-methyl-1-(oxazol-
     440125-97-3P
                                       440126-01-2P
    2-yl)pentan-1-one
                        440126-00-1P
                                                      440126-02-3P
     440126-03-4P, 2-Amino-1-benzoxazol-2-yl-2-methylpentan-1-one
     440126-04-5P, 2-Amino-1-benzoxazol-2-yl-2-methyl-4-phenylbutan-1-one
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440126-05-6P, 2-Amino-1-benzoxazol-2-yl-2-methylbutan-1-one
                                                                     440126-06-7P
     440126-07-8P
                    440126-08-9P
                                    440126-10-3P
                                                   440126-11-4P
                                                                   440126-35-2P
     440126-38-5P
                    440126-39-6P
                                    440126-65-8P
                                                   440126-73-8P
                                                                   440126-76-1P
     440126-78-3P 440126-82-9P
                                    440126-85-2P
                                                   440126-87-4P
                                                                   440126-89-6P
                    440126-93-2P
                                    440126-95-4P
                                                   440126-97-6P
                                                                   440127-01-5P
     440126-91-0P
                    440127-05-9P
                                    440127-09-3P
                                                   440127-12-8P
                                                                   440127-14-0P
     440127-03-7P
     440127-16-2P
                    440127-18-4P
                                    440127-20-8P
                                                   440127-22-0P
                                                                   440127-30-0P
     440127-38-8P
                    440127-46-8P
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (intermediate; prepn. of N-(benzoxazolylcarbonylalkyl) - and
        N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as
        selective cathepsin S inhibitors)
IT
     71965-46-3, Cathepsin S
                                94716-09-3, Cathepsin K
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (prepn. of N-(benzoxazolylcarbonylalkyl) - and N-
        (oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective
        cathepsin S inhibitors)
IT
                                 105-53-3, Diethyl malonate
     100-53-8, Benzylmercaptan
                                                               109-02-4,
                         667-27-6, Ethyl bromodifluoroacetate
     4-Methylmorpholine
                                                                 823-78-9,
     3-Bromobenzyl bromide 1197-22-4
                                         2170-03-8, 3-Methylenedihydrofuran-2,5-
             20605-01-0, Diethyl bis(hydroxymethyl)malonate
                                                               26039-98-5,
     2-Trifluoromethylbenzylmercaptan 29805-59-2, Diethyl
     [2-cyclohexylmethyl]malonate 72707-66-5, 2-Bromomethylacrylic acid
     139617-91-7, 2-Iodoethyl phenyl sulfide 440125-05-3 440125-16-6
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reactant; prepn. of (benzoxazolylcarbonylalkyl) - and
        (oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective
        cathepsin S inhibitors)
                                       78-77-3, 1-Bromo-2-methylpropane
     54-85-3, Isonicotinic hydrazide
     98-80-6, Phenylboronic acid 104-54-1, Cinnamyl alcohol 1-Methylpiperazine 124-68-5, 2-Amino-2-methyl-1-propanol
                   288-42-6, Oxazole 555-96-4, Benzylhydrazide
     Benzoxazole
                                                                    617-35-6,
                     1068-55-9, Isopropyl magnesium chloride 1119-51-3,
     Ethyl pyruvate
                         2081-44-9, 4-Hydroxy tetrahydropyran
     5-Bromo-1-pentene
     Propylmagnesium chloride 4392-24-9, Cinnamyl bromide
                                                              4441-67-2,
     4-Cyclohexylbutyryl chloride 5041-33-8
                                                5425-44-5, 2-Phenyl-1,3-
     dithiane
                5856-62-2, (S)-(+)-2-Amino-1-butanol 6290-49-9, Methyl
     methoxyacetate 7051-34-5, Bromomethylcyclopropane 16867-03-1, 2-Amino-3-hydroxypyridine 17435-72-2, Ethyl 2-(bromomethyl)acrylate
     methoxyacetate
     20989-17-7, S-(+)-Phenylglycinol
                                        28188-41-2, 3-Cyanobenzyl bromide
     34306-42-8 39098-75-4, 3-Cyclohexylpropionyl chloride
                                                                40299-87-4,
     2-Bromo-1-morpholin-4-ylethanone
                                        59025-03-5
                                                      65943-95-5,
                                        85684-64-6, 2-(Difluoromethoxy)benzyl
     3-[1,3,4]Oxadiazol-2-ylpyridine
               90719-32-7, (S)-(-)-4-Benzyl-2-oxazolidinone
                                                               114214-49-2,
     6-0xa-3-azabicyclo[3.1.0]hexane-3-carboxylic acid tert-butyl ester
     166196-01-6, (2-Cyano-1-ethyl-2-hydroxyethyl)carbamic acid tert-butyl
             281219-28-1, 4-Amino-3-hydroxyazepane-1-carboxylic acid tert-butyl
     ester
             294871-39-9
                           294885-23-7
                                         294885-26-0, 2-Amino-1-benzoxazol-2-yl-
                           324795-39-3 440125-24-6, (1-Formylpentyl)carbamic
     3-methoxypropan-1-ol
                             440125-49-5, 1-(4-Benzyl-2-oxooxazolidin-3-yl)-2-
     acid tert-butyl ester
     cyclohexylmethyl-4-morpholin-4-ylbutane-1,4-dione 440125-87-1,
                                                          440126-34-1
     2-Amino-1-benzoxazol-2-ylbutan-1-ol 440126-25-0
                   440126-72-7
                                 440126-75-0
                                                440126-81-8
     440126-70-5
                                                              440126-84-1
                   440127-08-2
                                                440127-32-2
     440127-00-4
                                  440127-11-7
                                                              440127-35-5
     440127-37-7
                   440127-40-2
                                 440127-45-7, 2-Amino-1-benzoxazol-2-ylpentan-1-
          440127-68-4
     RL: RCT (Reactant); RACT (Reactant or reagent)
        (reactant; prepn. of N-(benzoxazolylcarbonylalkyl) - and
        N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as
        selective cathepsin S inhibitors)
     440126-16-9P 440126-24-9P 440126-26-1P
     440126-27-2P 440126-28-3P 440126-40-9P
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IT

IT

440126-57-8P 440126-64-7P 440126-68-1P 440126-69-2P 440126-77-2P 440126-86-3P 440126-92-1P 440126-98-7P 440127-06-0P 440127-21-9P 440127-26-4P 440127-28-6P 440127-34-4P 440127-36-6P 440127-39-9P 440127-41-3P 440127-66-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(cathepsin S inhibitor; prepn. of N-(benzoxazolylcarbonylalkyl)- and N-(oxadiazolylcarbonylalkyl)alkanamides and related compds. as selective cathepsin S inhibitors)

RN 440126-16-9 HCAPLUS

CN 4-Morpholinebutanamide, N-[(1S)-1-(2-benzothiazolylcarbonyl)propyl].gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 440126-24-9 HCAPLUS

CN 4-Morpholinebutanamide, N-[(1S)-1-(2-benzoxazolylcarbonyl)propyl]-.gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 440126-26-1 HCAPLUS

CN 4-Morpholinebutanamide, N-[(1S)-1-(2-benzoxazolylcarbonyl)pentyl]-.gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 440126-27-2 HCAPLUS

CN 4-Morpholinebutanamide, N-[(1S)-4-(dimethylamino)-1-ethyl-3,3-difluoro-2,4-dioxobutyl]-.gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 440126-28-3 HCAPLUS

CN 4-Morpholinebutanamide, N-[(1S)-1-ethyl-2,3-dioxo-3-[(phenylmethyl)amino]propyl]-.gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 440126-40-9 HCAPLUS

CN 4-Morpholinebutanamide, .gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]-N-[(1S)-1-[(3-phenyl-1,2,4-oxadiazol-5-yl)carbonyl]propyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 440126-57-8 HCAPLUS

CN 4-Morpholinebutanamide, .gamma.-oxo-N-[2-oxo-3-

[(phenylsulfonyl)amino]propyl]-.alpha.-[[(phenylmethyl)sulfonyl]methyl]-(9CI) (CA INDEX NAME)

RN 440126-64-7 HCAPLUS

CN 4-Morpholinebutanamide, .gamma.-oxo-N-[1-(oxophenylacetyl)pentyl]-.alpha.- [[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)

RN 440126-68-1 HCAPLUS

CN 4-Morpholinebutanamide, N-(1,1-dimethyl-2-oxazolo[4,5-b]pyridin-2-yl-2-oxoethyl)-.gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)

RN 440126-69-2 HCAPLUS

CN 4-Morpholinebutanamide, N-[1-[(5-ethyl-1,3,4-oxadiazol-2-yl)carbonyl]butyl]-.gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]-(9CI) (CA INDEX NAME)

RN 440126-77-2 HCAPLUS

CN 4-Morpholinebutanamide, N-[1-[[5-(methoxymethyl)-1,3,4-oxadiazol-2-yl]carbonyl]propyl]-.gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]-(9CI) (CA INDEX NAME)

RN 440126-86-3 HCAPLUS

CN 4-Morpholinebutanamide, .gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]-N-[1-[(5-phenyl-1,3,4-oxadiazol-2-yl)carbonyl]propyl]- (9CI) (CA INDEX NAME)

RN 440126-92-1 HCAPLUS

CN 4-Morpholinebutanamide, N-[1-(oxazolo[4,5-b]pyridin-2-ylcarbonyl)propyl].gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX
NAME)

RN 440126-98-7 HCAPLUS

CN 4-Morpholinebutanamide, .gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]-N-[1-[[5-(4-pyridinyl)-1,3,4-oxadiazol-2-yl]carbonyl]propyl]- (9CI) (CA INDEX NAME)

RN 440127-06-0 HCAPLUS

CN 4-Morpholinebutanamide, .gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]-N-[1-[[5-(3-pyridinyl)-1,3,4-oxadiazol-2-yl]carbonyl]propyl]- (9CI) (CA INDEX NAME)

RN 440127-21-9 HCAPLUS

CN 4-Morpholinebutanamide, N-[2-(2-benzoxazolyl)-1-(methoxymethyl)-2-oxoethyl]-.alpha.-[[[[2-(difluoromethoxy)phenyl]methyl]sulfonyl]methyl]-.gamma.-oxo-(9CI) (CA INDEX NAME)

RN 440127-26-4 HCAPLUS

CN 4-Morpholinebutanamide, .alpha.-[[[[2-(difluoromethoxy)phenyl]methyl]sulfonyl]methyl]-.gamma.-oxo-N-[1-[(5-phenyl-1,3,4-oxadiazol-2-yl)carbonyl]propyl]- (9CI) (CA INDEX NAME)

RN 440127-28-6 HCAPLUS

CN 4-Morpholinebutanamide, N-[1-(2-benzoxazolylcarbonyl)propyl]-.alpha.-[[[[2-(difluoromethoxy)phenyl]methyl]sulfonyl]methyl]-.gamma.-oxo-(9CI) (CA INDEX NAME)

RN 440127-34-4 HCAPLUS

4-Morpholinebutanamide, .gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]-N-[(1S)-1-[(5-phenyl-1,2,4-oxadiazol-3-yl)carbonyl]propyl]- (9CI) (CAINDEX NAME)

Absolute stereochemistry.

RN 440127-36-6 HCAPLUS

CN 4-Morpholinebutanamide, N-[1-(2-oxazolylcarbonyl)-3-phenylpropyl]-.gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)

RN 440127-39-9 HCAPLUS

CN 4-Morpholinebutanamide, N-[1,1-dimethyl-2-(2-oxazolyl)-2-oxoethyl]-.gamma.-oxo-.alpha.-[[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)

RN 440127-41-3 HCAPLUS

CN 4-Morpholinebutanamide, .alpha.-[[[[2-(difluoromethoxy)phenyl]methyl]sulfo nyl]methyl]-N-[1-(2-oxazolylcarbonyl)-3-phenylpropyl]-.gamma.-oxo- (9CI) (CA INDEX NAME)

RN 440127-66-2 HCAPLUS

CN 4-Morpholinebutanamide, N-[1-(2-oxazolylcarbonyl)cyclopropyl]-.gamma.-oxo-alpha.-[[(phenylmethyl)sulfonyl]methyl]- (9CI) (CA INDEX NAME)

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L5

(FILE 'HOME' ENTERED AT 15:25:16 ON 27 MAY 2003) SET COST OFF

FILE 'HCAPLUS' ENTERED AT 15:25:37 ON 27 MAY 2003

E US2000-257603/AP, PRN

L1 1 S E5

E WO2001-US50680/AP,PRN

L2 1 S E3

L3 1 S L1, L2 SEL RN

FILE 'REGISTRY' ENTERED AT 15:26:58 ON 27 MAY 2003

L4 330 S E1-E330

12 S L4 AND NC2OC2/ES AND N2COC/ES AND 46.150.18/RID

L6 4 S L5 AND 3/NR

L7 1 S L5 AND C26H34F2N4O8S

SEL RN

L8 0 S E331/CRN

L9 L10 L11 L12 L13		STR 2 S L9 STR L9 1 S L11 105 S L4 AND NC2OC2/ES
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	FILE	'REGISTRY' ENTERED AT 15:42:15 ON 27 MAY 2003
L16 L17 L18		'REGISTRY' ENTERED AT 15:45:58 ON 27 MAY 2003 STR L11 1 S L16 24 S L16 FUL SAV L18 TEMP SHIA0035/A 23 S L18 NOT L7
L20	FILE	'HCAOLD' ENTERED AT 15:47:17 ON 27 MAY 2003 O S L19
L21		'HCAPLUS' ENTERED AT 15:47:19 ON 27 MAY 2003 1 S L19
L22	FILE	'USPATFULL, USPAT2' ENTERED AT 15:47:25 ON 27 MAY 2003 O S L19
	FILE	'REGISTRY' ENTERED AT 15:47:40 ON 27 MAY 2003
	FILE	'HCAPLUS' ENTERED AT 15:47:48 ON 27 MAY 2003